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WIND ENERGY SYSTEMS Electronic Edition by...2-7 2.3 Wind **Speed** Distribution in the...3-2 3.3 Rotational Anemometers...3-5 3.4 Other Anemometers...3-34 Wind Energy Systems by Dr. Gary L. Johnson...
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2. [The methodology for aerodynamic study on a small domestic wind turbine with scoop](#)
Wang, F. / Bai, L. / Fletcher, J. / Whiteford, J. / Cullen, D. , *Journal of Wind Engineering & Industrial Aerodynamics*, 96 (1), p.1-24, Jan 2008
...The domain, grid **system** and boundary conditions...25 and (b) airflow **speed**: 13.9ms⁻¹. Fig. 8...scoop at airflow **speed** of 11.25ms⁻¹. (a...a) With various tip **speed** ratios and...the reference wind **speed** and hot-wire anemometry...onto a traversing **system** was used to measure...outlet. The hot-wire anemometer was calibrated before...

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3. [A simulation-based procedure for reliability analysis of wind turbines](#)
1976- Saranyasoontorn, Korn, , Jan 2006
...83 3.24 Ratio of the variance of turbine load...104 3.35 Simulated wind **speed** time histories based on 1, 5...estimates of simulated wind **speed** time histories based on 20 modes...estimates of simulated wind **speed** time histories based on 20 modes...
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4. [A horizontal axis wind energy conversion system with aerodynamic blade pitch control](#)
Rossman, Wendell Ernest (Rossman, Wendell Ernest), *EUROPEAN PATENT*, Aug 1983
patno:EP86076
...shaft as well as a **speed** step-up transmission or gear **system** connecting the shaft...**speed** and over-speed controls. In one case, a...or by servo-motor control, thus either stalling...technique uses a control to rotate the rotor...larger conversion **systems** em- 45 ploy sophisticated...translation of upwind **anemometer** and electric load...
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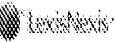
5. [NASA SP-7037 \(321\) September 1995 AERONAUTICAL ENGINEERING A... \[PDF-2MB\]](#)
Dec 1999
...prime propulsion **systems** and **systems** components, e.g., gas turbine...Category 08 Aircraft Stability and Control 407 Includes aircraft handling qualities piloting flight **controls** and autopilots. Category 09...astrodynamics ground support **systems** and facilities (space) launch...with the rotor axis at the tip of the wing (tilt rotor configuration...
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6. [The dynamic performance of a composite blade from a 5kW wind turbine. Part 1: measured blade response.](#) [PDF-857K]
Apr 2007
...anenometer | **tip speed ratio**, RV T/ U0 U T turbine...T turbine rotational **speed** C T turbine rotor azimuthal...of the tower, variable **speed**, high **tip speed ratio**, free yaw with...via a radio telemetry system to a data collection...including the electrical and **control systems**, important aspects...
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7. [43rd AIAA Aerospace Sciences Meeting and Exhibit Agenda](#) [2MB]
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...AIAA-2005-0016 On **Circumferential** Phase- shift Condition...Session 3- ABP-2 High-**Speed** Inlets and Isolators...Scramjet Inlet at High **Speed** Y. Roman, H. Yan and...for Autogyros in Low- **Speed** Forward Flight M...AIAA-2005-0057 Diffused Tip Vortex Structure Generated...Wings via Separation **Control** D. Greenblatt, NASA...0930 AIAA-2005-0069 **Systems**- Level Space Environment...Performance of Finite Aspect- **Ratio** Flapping Foils H...
[<http://www.aiaa.org/agenda.cfm?lumetingid=666&viewcon...>]
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8. [The University of Newcastle](#) [PDF-2MB]
Jun 2002
...Furthermore, pitch **control** is rarely used...at constant **speed** as this allows...remote area power **system** (RAPS). We will...so that the **tip** is higher than...as the wind **speed** varies to maintain...which is an **anemometer** and wind vane...measures the wind **speed** for use in determining...Vtip is the **circumferential** velocity of the blade **tip** in m/sec and...interpreted as the **ratio** of the actual...
[<http://www.wind.newcastle.edu.au/swt-notes/swt-notes-c...>]
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9. [Composite wind turbine rotor blade and method for making same](#)
Johnston, J. Ford / Farone, William A. / Mikhail, Amir (DWR Wind Technologies Inc.), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Dec 1990
patno:US4976587
...lateral loads. **System** 20 includes...semi-active yaw drive **control system** which causes...Typically, an **anemometer** (not shown...monitors wind **speed** so that under...wind turbine **system**, the housing...be varied to **control** the aerodynamic...based on the **ratio** of the coefficient...from 15% at the **tip** to 19% at the...a series of **circumferentially** spaced holes...
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10. [NASA SP-7037 \(332\) July 1996 AERONAUTICAL ENGINEERING A CONTINUING...](#) [PDF-668K]
Dec 1999
...communication with aircraft air navigation **systems** (satellite and ground based) and air traffic **control**. 05 Aircraft Design, Testing and Performance...Power 29 Includes prime propulsion **systems** and **systems** components, e.g., gas turbine engines...aircraft. 08 Aircraft Stability and **Control** 33 Includes aircraft handling qualities...
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